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July 12, 2003, 21:05:24; Search time 1445 Seconds (without alignments) 1008.715 Million cell updates/sec
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GenCore version 5.1.6
Copyright (c) 1993 - 2003 Compugen Ltd.
                                                                                                                                                                                                                                                                                                           16154066 seqs, 8097743376 residues
                                                                                                                                                                                                                                                                                                                                         Total number of hits satisfying chosen parameters:
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Listing first 45 summaries
                                                                    OM nucleic - nucleic search, using sw model
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Gapop 10.0 , Gapext 1.0
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27: em\_gss\_hum:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

|           | Description                 | AU098678 AU098678 | BE831859 RC6-MT006 | BM694414 UI-E-CII- | BI547746 603191906 | BIS47550 603190969 | AT.042549 DKE2D434T |
|-----------|-----------------------------|-------------------|--------------------|--------------------|--------------------|--------------------|---------------------|
| SUMMARIES | ID                          | 9 AU098678        | BE831859           | BM694414           | BI547746           | BI547550           | AL042549            |
|           | DB                          | 6                 | 13                 | 14                 | 13                 | 13                 | σ                   |
|           | Query<br>Match Length DB ID | 300               | 350                | 447                | 571                | 635                | 653                 |
| dР        | Query<br>Match              | 100.0             | 100.0              | 100.0              | 100.0              | 100.0              | 100.0               |
|           | Score                       | 90                | 90                 | 90                 | 06                 | 90                 | 06                  |
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| BG722295 602693472<br>RI559391 603253071             | BIS97041 603248271 | BG719125 602699058 | BMI72428 imageqc_4 | BG709029 6025308 | BI544366 603241762 | BG704185 602687727 | BG764788 602736395 | BI761515 603046658 | BI561536 603256235 | BF315675 601899329 | AL550975 AL550975 | BQ897731 AGENCOURT | BF204878 601867185 | BQ440126 AGENCOURT | AL543516 AL543516 | BF979775 602288671 | BQ688437 AGENCOURT | AL550425 AL550425 | BQ880712 AGENCOURT | AL533088 AL533088 | BQ706464 AGENCOURT | AL537562 AL537562 | AL518480 AL518480 | BI545987 603188112 | AU137092 AU137092 | AL557346 AL557346 | AU128077 AU128077 | AL532648 AL532648 | BQ807996 NISC_KK12 | BE735858 601305192 | BG701016 602682011 | BQ882754 AGENCOURT | BG720447 602691751 | BI601746 603249996 | BE867517 601443015 | AU077057 AU077057  |
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| 7 8  | · Ф (              | <b>5</b> ,         | ٦ ،                |                  | ₹*                 | D.                 | s<br>S             | 7                  | œ                  | o.                 | 0                 | _                  | ~                  |                    | ₹.                | ın                 | ر.                 | _                 | m                  | •                 | 0                  | 1 88              | 2 88              | 3 88               | 88                | 98                |                   | _                 | 3 87               | •                  | 82                 | 1 85               | ~                  |                    |                    | 77                 |

## ALIGNMENTS

|                      | AU098678 300 bp mRNA linear EST 05-APR-2001 | N AU098678 Sugano Homo sapiens cDNA library Homo sapiens cDNA clone | COL09158 similar to Human mRNA for amyloid A4 precursor of | Alzheimer's disease, mRNA sequence. | AU098678  | AU098678.1 GI:13549807 | BST.     | human. | M Homo sapiens | Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; | Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo. | 1 (bases 1 to 300) | Suzuki,Y., Tsunoda,T., Taira,H., Mizushima-Sugano,J., Sese,J., Hata | ,H., Ota,T., Isogai,T., Tanaka,T., Nakamura,Y., Morishita,S., Okubo | , K., Suyama, A. and Sugano, S. | In silico mapping of the 5'-ends of human mRNAs using full-length | enriched and 5'-end enriched cDNA libraries constructed by | Oligo-capping method | Unpublished (2001) | Contact: Yutaka Suzuki | Department of Virology | Institute of Medical Science, University of Tokyo | 4-6-1, Shirokanedai, Minatoku, Tokyo 108-8639, Japan | Email: ysuzuki@ims.u-tokyo.ac.jp | Suzuki,Y., Yoshitomo-Nakagawa,K., Maruyama,K., Suyama,A. and Sugano | , S. Construction and characterization of a full length-enriched and | a 5'-end-enriched cDNA library. Gene 200 (1-2), 149-156 (1997). |  |
|----------------------|---|---|--|-------------------------------------|-----------|------------------------|----------|--------|----------------|---|--|--------------------|---|---|---------------------------------|---|--|----------------------|--------------------|------------------------|------------------------|---|--|----------------------------------|---|--|---|--|
| RESULT 1<br>AU098678 | rocus                                       | DEFINITION  |  |                                     | ACCESSION | VERSION                | KEYWORDS | SOURCE | ORGANISM       |   |  | REFERENCE          | AUTHORS   |   |                                 | TITLE   |  |                      | JOURNAL            | COMMENT                |                        |   |  |                                  |   |  |   |  |

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Query Match 100.
Best Local Similarity 100.
Matches 90; Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Email: asimpson@ludwig.org.br
This sequence was derived from the FAPESP/LICR Human Cancer Genome
Project. This entry can be seen in the following URL
(http://www.ludwig.org.br/seripts/gethtml2.pl?tl=&t2=RC6-MT0061-310
700-021-G04&t3=2000-07-31&t4=1)
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                                                                                                                                                                                                                                                                                                                       1. 300
/organism="Homo sapiens"
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Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
1 (bases 1 to 350)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Contact: Simpson A.J.G.
Laboratory of Cancer Genetics
Ludwig Institute for Cancer Research
Rua Prof. Antonio Prudente 109, 4 andar, 01509-010, Sao Paulo-SP,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Shotgun sequencing of the human transcriptome with ORF expressed
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20202663
                                                                                                                                                                                                                           Length 300;
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                                                                                                                                                                                                                         Score 90; DB 9; I
Pred. No. 6.2e-13;
0; Mismatches 0;
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    /organism="Homo sapiens"
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High quality sequence stop: 345.
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Matches 90; Conservative 0
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Fax: +55-11-2707001
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/tissue_type="REE and Choroid"
//dev_stage="adult"
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U.E-CIl-afq-d-05-0-UI.rl UI-E-CIl Homo sapiens CDNA clone
UI-E-CIl-afq-d-05-0-UI 5', mRNA sequence.
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                                                                                                                                                                                                                                                                                                                                                    University of Iowa
451 Eckstein Medical Research Building Iowa City, IA 52242, USA
7Tel: 319 335 8250
Fax: 319 335 9565
Email: msoares@blue.weeg.ulowa.edu
7155x0 Procurement: Dr. Gregg Hageman
CDNA Library Preparation: Dr. M. Bento Soares, Univeristy of Iowa
DNA Sequenching by: Dr. M. Bento Soares, Univeristy of Iowa
DNA Sequenching by: Dr. M. Bento Soares, Univeristy of Iowa
DNA Sequenching Price M. Bento Soares, Univeristy of Iowa
Clone Distribution: Researchers may obtain clones from Research
Genetics (www.resgen.com).
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Primates; Catarrhini; Hominidae; Homo.
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1 (bases 1 to 447)
Bonaldo,M.F., Lennon,G. and Soares,M.B.
Normalization and subtraction: two approaches to facilitate gene
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                                                                                                                                 Length 350;
             1 others
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6.4e-13;
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/db_xref="taxon:9606"
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             71
                                                                                                                                      Score 90;
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RESULT 4 BI547746

ACCESSION VERSION KEYWORDS SOURCE

ORGANISM

REFERENCE AUTHORS TITLE JOURNAL COMMENT

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http://image.llnl.gov
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Plate: LiAMil661 row: 1 column: 17
High quality sequence stop: 634.
Location/Qualifiers
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T 147 a 177 c 196 g 115 t
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DKFZp43412421 5', mRNA sequence.
AL042549
AL042549:1 GI:5422004
EST.
                                                                                                                                                           BI547550 635 bp mRNA linear EST 05-SEP-2001 603190969F1 NIH_MGC_95 Homo sapiens cDNA clone IMAGE:5262424 5',
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Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
1 (bases 1 to 635)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Email: cgapbs-remail.nih.gov
Tissue Procurement: Miklos Palkovits, M.D., Ph.D.
CDNA Library Preparation: Michael J. Brownstein (NHGRI), Shiraki
Toshiyuki and Piero Carninci (RIKEN)
CDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
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National Institutes of Health, Mammalian Gene Collection (MGC)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      DNA Sequencing by: Incyte Genomics, Inc. Clone distribution: MGC clone distribution information can found through the I.M.A.G.E. Consortium/LLNL at:
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          103 GCAGCGCACTCGGTGCCCCGCGCAGGGTCG 132
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                                                                                                                                                                                                                                                      BIS47550.1 GI:15434862
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                                                                                                                                                                                                           mRNA sequence.
BI547550
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BI547550
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E (bases 1 to 571)

S NIH-MCC http://mgc.nci.nih.gov/.
National Institutes of Health, Mammalian Gene Collection (MGC)

L Unpublished (1999)

Contact: Robert Strausberg, Ph.D.
Email: cgapbs-rémail.nih.gov
Tissue Procurement: Miklos Palkovits, M.D., Ph.D.
cDNA Library Preparation: Miklos Palkovits, M.D., Ph.D.
cDNA Library Preparation: Miklos Palkovits, D.C.
CONA Library Arrayed by: The I.M.A.G.E. Consortium (LINL)

DNA Sequencing by: Incyte Genomics, Inc.
Clone distribution: MGC clone distribution information can be found through the I.M.A.G.E. Consortium/LLNL at:

found through the I.M.A.G.E. Consortium/LLNL at:

High quality sequence stop: 569.

Location/Qualifiers
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                                                                              Score 90; DB 14;
Pred. No. 6.6e-13;
Mismatches 0;
  76 t
                                                                                                                                                                                                                                                                             61 GCAGCGCACTCGGTGCCCCGCGCAGGGTCG 90
                                                                                                                                                                                                                                                                                                    /clone="IMAGE:5263249"
/clone_lib="NIH_MGC_95"
/tissue_type="hippocampus"
/lab_host="DH10B"
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/organism="Homo sapiens"
/db_xref="taxon:9606"
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100.0%; Pre
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Best Local Similarity 100.
Matches 90; Conservative
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PBluescript K8+); Site_1: BamHI; Site_2: Sall-XhoI (gtcgag) | Oligo-dT primed using primer 5'-TTTTTTTTTTTTTVN-3', size-selected for average insert size 2.2 kb and normalized to ROT 5. This is a primary library enriched for full-length clones and constructed using the Cap-trapper method (Carninci, in preparation) Library constructed by M. Brownstein (NIMH/NHGRI, National Institutes of Health). Note: this is a NIH_MGC Library."
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Tissue Procurement: Miklos Palkovits, M.D., Ph.D.
CDNA Library Preparation: Michael J. Brownstein (NHGRI), Shiraki
Toshiyuki and Piero Carninci (RIKEN)
CDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
DNA Sequencing by: Incyte Genomics, Inc.
Clone distribution: MGC clone distribution information can be found through the I.M.A.G.E. Consortium/LLNL at:
http://image.llnl.gov
Plate: LLAMI177 row: n column: 18
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Mammalia; Eutheria; Primates; Catarrhin1; Hominidae; Homo.
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NIH-MGC http://mgc.nci.nih.gov/.
National Institutes of Health, Mammalian Gene Collection (MGC)
                                                                                                                           /db_xref="taxon:9606"
/clone="laMAGE:4825960"
/lone_lib="NIH_MGC_97"
/lab_host="DH10B"
/note="Organ: testis; Vector: pBluescriptR (modified
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              Plate: LLAM10739 row: o column: 17
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/clone_lib="NIH_MGC_97"
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                                 High quality sequence stop: 6
Location/Qualifiers
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                                                                                                                                                                                                                                Am Klopferspitz 18a D-82152 Martinsried, Germany
This is the 5' sequence of the clone insert
Clone from S. Wiemann, Molecular Genome Analysis, German Cancer
Research Center (DKF2); Email s. Wiemannédkfz- heidelberg.de,
sequenced by LMU (Ludwig Maximilians University,
Munich/Germany) within the CDNA sequencing consortium of the German
Genome Project.
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602693472F1 NIH_MGC_97 Homo sapiens cDNA clone IMAGE:4825960 5',
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Contact: Robert Strausberg, Ph.D.
Email: cgapbs-remail.nih.gov
Tissue Procurement: Miklos Palkovits, M.D., Ph.D.
cDNA Library Preparation: Michael J. Brownstein (NHGRI), Shiraki
Toshiyuki and Piero Carninci (RIKEN)
CDNA Library Arrayed by: The I.M.A.G.E. Consortium (LINL)
DNA Sequencing by: Incyte Genomics, Inc.
Clone distribution: MGC clone distribution information can be
found through the I.M.A.G.E. Consortium/LLNL at:
                                                  Chordata; Craniata; Vertebrata; Euteleostomi;
Primates; Catarrhini; Hominidae; Homo.
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                                                                                           1 (bases 1 to 653)
Blum, H., Bauersachs, S., Mewes, H.W., Gassenhuber, J. and Wlemann, S. EST (Blum, et al.)
Unpublished (1999)
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Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalla; Eutheria; Primates; Catarrhini; Hominidae; Homo.
I (bases 1 to 657)
NIH-MGC http://mgc.nci.nih.gov/
National Institutes of Health, Mammalian Gene Collection (MGC)
                                                                                                                                                                                                                                                                                                                                                                                           No s1 sequence available.
This clone (DKFZp43412421) is available at the RZPD in Berlin.
Please contact the RZPD: Ressourcenzentrum, Heubnerweg 6, 14059
Berlin-Charlottenburg, GERWANY; Email: clone@rzpd.de.
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/clone_lib="434 (synonym: htes3)"
/tissue_type="testis"
/dev_stage="adult"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Score 90; DB 9;
Pred. No. 7.1e-13;
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/db_xref="taxon:9606"
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                                                Eukaryota, Metazoa;
Mammalia; Eutheria;
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/clone_lib="NIH_MGC_97"
/lab_host="NIH_MGC_97"
/lab_host="DH10B"
/
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60296968FI NIH_MGC_97 Homo sapiens CDNA clone IMAGE:4831046 5',
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Contact: Robert Strausberg, Ph.D.
Contact: Robert Strausberg, Ph.D.
Email: cgapbs-remail.nih.gov
Tissue Procurement: Miklos Palkovits, M.D., Ph.D.
cDNA Library Preparation: Michael J. Brownstein (NHGRI), Shiraki
Toshiyuki and Piero Carninci (RIKEN)
CONA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
DNA Sequencing by: Incyte Genomics, Inc.
Clone distribution: MGC clone distribution information can be found through the I.M.A.G.E. Consortium/LLNL at:
http://image.linl.gov
http://image.linl.gov
                                                   39 GGGAGACGCGGCGGCGCGCGCGCGCGCAGAGCAAGCACGCGCGCGCACACTCCCACTCCCACT
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National Institutes of Health, Mammallan Gene Collection (MGC)
Unpublished (1999)
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Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo
1 (bases 1 to 685)
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Local Similarity 100.0%; Pred. No. 7.2e-13;
hes 90; Conservative 0; Mismatches 0;
                                                                                                                                                                                                         99 GCAGCGCACTCGGTGCCCCGCGCAGGTCG 128
                                                                                                                                                          61 GCAGCGCACTCGGTGCCCCGCGCAGGGTCG 90
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Location/Qualifiers
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/clone="IMAGE:4831046"
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1. In Library 1. La 0.7)

1. In Library 1. La 0.7)

1. In The Control of Health, Mammalian Gene Collection (MCC)

1. In Dubulshed (1999)

1. Contact: Robert Strausberg, Ph.D.

1. Email: cgapDS-rémail.nih.gov

1. Issue Procurement: Miklos Palkovits, M.D., Ph.D.

1. Contact: Robert Strausberg, Ph.D.

2. Contact: Robert Strausberg, Ph.D.

2. Contact: Robert Strausberg, Ph.D.

2. Contact: Robert Strausberg, Ph.D.

3. Contact: Robert Strausberg, Ph.D.

4. Contact: Robert Strausberg, Ph.D.

5. Contact: M.D., Ph.D.

6. Contact: M.D., Ph.D.

7. Con
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603248271F1 NIH_MGC_96 Homo sapiens cDNA clone IMAGE:5300177 5',
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Sukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
1 (bases 1 to 679)
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100.0%; Pred. No. 7.2e-13;
tive 0; Mismatches 0;
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/clone_lib-"NIH_MGC_96"
/tissue_type-"hypothalamus"
/lab_host-"DH10B"
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/db_xref="taxon:9606"
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The I.M.A.G.E. Consortium quality control effort: clone resequencing for verification

Unpublished (2001)

Contact: Prange CK

The I.M.A.G.E. Consortium

Lawrence Livermore National Laboratory

Laborat
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Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
1 (bases 1 to 701)
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Mammalia, Eutheria, Primates, Catarrhini, Hominidae, Homo.
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Pred. No. 7.2e-13;
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IMAGE:4829092 5', mRNA sequence.
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BI545908
BI545908.1 GI:15433220
                                              BM172428.1 GI:17311991
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                                                                                                                   ORGANISM
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BG709029 715 bp mRNA linear EST 07-MAY-2001 602675179F1 NIH_MGC_96 Homo saplens cDNA clone IMAGE:4797883 5',
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Tissue Procurement: Miklos Palkovits, M.D., Ph.D.
CDNA Library Preparation: Michael J. Brownstein (NHGRI), Shiraki
Toshiyuki and Piero Carninci (RIKEN)
CDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
DNA Sequencing by: Incyte Genomics, Inc.
Clone distribution: MGC clone distribution information can be
found through the I.M.A.G.E. Consortium/LLNL at:
http://image.llnl.gov
Plate: LLAMI1654 row: 1 column: 02
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Contact: Robert Strausberg, Ph.D.
Email: orgapis-remail.nih.gov.
Email: orgapis-remail.nih.gov.
Tissue Procurement: Miklos Palkovits, M.D., Ph.D.
cDNA Library Preparation: Michael J. Brownstein (NHGRI), Shiraki
Toshiyuki and Piero Carnino! (RIKAN)
CDNA Library Arrayed by: The I.M.A.G. E. Consortium (LLNL)
DNA Sequencing by: Incyte Genomics, Inc.
Clone distribution: MGC clone distribution information can be
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NIH-WGC http://mgc.nci.nih.gov/.
National Institutes of Health, Mammalian Gene Collection (MGC)
1 (bases 1 to 705)
NIH-MGC http://mgc.nci.nih.gov/.
National Institutes of Health, Mammalian Gene Collection (MGC)
Onpublished (1999)
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Location/Qualiflers

1. 705

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                                                                                                                                                                                                                                Contact: Robert Strausberg, Ph.D.
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Homo sapiens
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Email: cgapbs-rémail.nih.gov
Tissue Procurement: Miklos Palkovits, M.D., Ph.D.
cDNA Library Preparation: Michael J. Brownstein (NHGRI), Shiraki
CDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
DNA Sequencing by: Incyte Genomics, Inc.
Clone distribution: MGC clone distribution information can be
found through the I.M.A.G.E. Consortium/LLNL at:
Plate: LLAMIITIS row: k. column: 16
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M1H-MGC http://mgc.nci.nih.gov/.
National Institutes of Health, Mammalian Gene Collection (MGC) Unpublished (1999)
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Cound through the I.M.A.G.E. Consortium/LLNL at:
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Best Local Similarity 100.0%; Pred. No. 7.2e-13;
Matches 90; Conservative 0; Mismatches 0;
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               http://image.llnl.gov
Plate: LiAM10684 row: m column: 20
High quality sequence stop: 697.
Location/Qualifiers
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/lab_host="DH10B"
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Location/Qualifiers
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             mRNA sequence.
BI544366
BI544366.1 GI:15431678
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                                                                                                                                                                                                                                                                                                                                                                                                Email: cgapbs-remail.nih.gov
Tissue Procurement: Miklos Palkovits, M.D., Ph.D.
cDNA Library Preparation: Michael J. Brownstein (NHGRI), Shiraki
Toshiyuki and Piero Carninci (RIKEN)
cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
DNA Sequencing by: Incyte Genomics, Inc.
Clone distribution: MGC clone distribution information can be
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NIH WGC http://mgc.nci.nih.gov/.
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Plate: LLAM10724 row: f column: 07
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100.0%; Pred. No. 7.2e-13;
tive 0; Mismatches 0;
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/lab_host="DH108"
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|   | Gaps   | GCACA   | GCACA   |                                      |                                      |
| 34;   | 0;   | CCACT   | CCACT   |                                      |                                      |
| Length 73   | Indels   | CGGCGGATC   | CGGCGGATC   |                                      |                                      |
| DB 12;  | es 0;  | GCAAGGACC   | GCAAGGACG   | 06                                   | 153                                  |
| Score 90;   | Mismatch   | CGGGGCAGA   | GCGGGCAGA   | SCAGGGTCG                            | SCAGGGTCG                            |
| 100.0%; Score 90; DB 12; Length 734; 100.0%; Pred: No. 7 3e-13. | Matches 90; Conservative 0; Mismatches 0; Indels 0; Gaps | 1 GGGAGACGCCGCCGCCGCCGCGCGCAGAGCAAGGACGCGGGGATCCCACTCGCACA 60 | 64 GGGAGACGGCGGCGGCGCGCGCGCGGGCAGAGCAACGCGCGGGGGG | 61 GCAGGGCACTCGGTGCCCCGCGCAGGGTCG 90 | 124 GCAGGGACTCGGTGCCCGCGCAGGGTCG 153 |
| Query Match<br>Best Local Similarity                            | Conserva   | GGAGACGGCG  | GGAGACGGCG  | CAGCGCACTC                           | CAGCGCACTC                           |
| atch<br>cal Si  | 90;  | ٦<br>ا  | 64 6  | 61 6                                 | 124 G                                |
| Query Match<br>Best Local S                                     | Matches  | Qy  | qq  | οy                                   | qq                                   |

Search completed: July 12, 2003, 21:58:09 Job time: 1450 secs